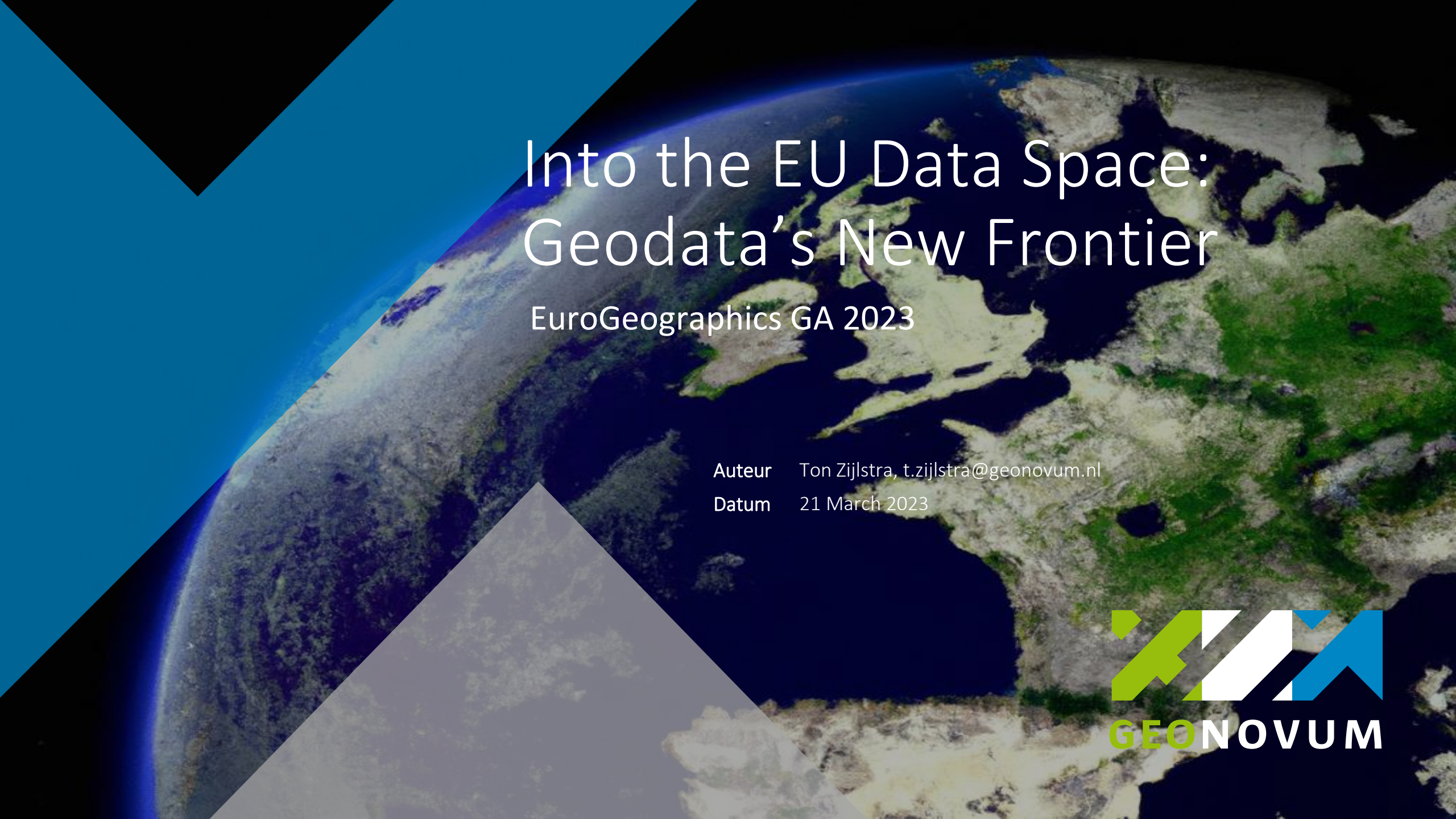
Into the EU Data Space: Geodata's New Frontier

EuroGeographics GA 2023

Auteur Ton Zijlstra, t.zijlstra@geonovum.nl

Datum 21 March 2023



European Digital Value(s)

European Commission

EN English

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Shaping Europe's digital future

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A European Strategy for data

The strategy for data focuses on putting people first in developing technology, and defending and promoting European values and rights in the digital world.

Data is an essential resource for economic growth, competitiveness, innovation, job creation and societal progress in general.

The European strategy for data aims at creating a single market for data that will ensure Europe's global competitiveness and data sovereignty. Common European data spaces will ensure that more data becomes available for use in the economy and society, while keeping the companies and individuals who generate the data in control.

New European Legal Framework

GEONOVUM

https://gnvm.nl/eulaw

Geopolitical proposition:
Digital Compass & Digital Rights and Principles

GDPR

- Applicable 2018

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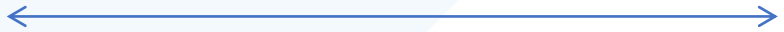

Digital Markets Act

- Digital Single Market
- Gatekeepers
- Interoperability
- Service neutrality
- In force Nov 2022
- Applicable May 2023

Digital Services Act

- Intermediary services
- Level playing field
- Transparency accountability
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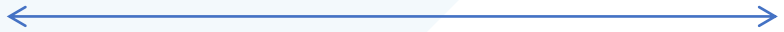

Digital Markets Act	Digital Services Act	AI Regulation	GDPR
• Digital Single Market • Gatekeepers • Interoperability • Service neutrality • In force Nov 2022 • Applicable May 2023	• Intermediary services • Level playing field • Transparency accountability • Civic rights • In force Nov 2022 • Applicable Jan 2024	• Civic rights based • Market access • Risk levels • Transparency accountability • Lists tech in scope • Lists risk areas in scope • Proposed April 2021 • 2024?	• Applicable 2018

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Data Governance Act

- Increase data usage
- Non public gov data
- Data altruïsm
- Data spaces, interoperability
- Data Innovation Board: governance / standards
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- Access to data in products
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- B2G
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Creating a single European market for data

European Data Strategy
- Adopted Feb 2020
- *Genuine* internal data market
- Built on EU values and rules

A cross-sectoral legislative framework
- Data Governance Act – in force July 2022
- Data Act – Proposal Feb 2022
- Implementing Act on High-value datasets (Open Data Directive) – draft Act May 2022

Common European data spaces
- Staff Working Document – Feb 2022
  Overview development data spaces, at request European Council
  - ✓ Horizontal aspects + sectoral initiatives
  - ✓ EU funding, programmes

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European Commission

An official website of the European Union How do you know?

NEWS ARTICLE | Publication 25 April 2018

Communication "Towards a common European data space"

With this Communication, the Commission proposes a package of measures as a key step towards a common data space in the EU - a seamless digital area with the scale that will enable the development of new products and services based on data.

Full text of the communication in all languages.

Related topics

Artificial intelligence | Big data | Data | Advanced Digital Technologies | Open data

The European Common Data Space

The European single market for the exchange, provision and use of data.
A network of stakeholders, tech, rules, and agreements.
All who provide or use data are part of the data space

Sectoral data spaces

Green Deal

Agriculture

Energy

Mobility

Public sector

Finance

Health

Skills

Manuf.

Data applications and services

Applications and services using use data from and share data to the dataspace, and abide by its agreements.

Stakeholder single market interaction

All stakeholders sharing, using and exchanging data are de facto part of the data space. Building on the underlying interoperability, standards and aligned rules.

Sectoral data spaces

Standards and common practices within sectors

General data space governance

Generic data governance, interoperability and standards

Networked Technology

Federated cloud services

www.flickr.com/photos/glasgowamateur/7892308660/

Three observations

1. Impact of data (re-)use key. Data spaces tied to thematic policy domains.

2. Geo-information and government data very important but not starting point.

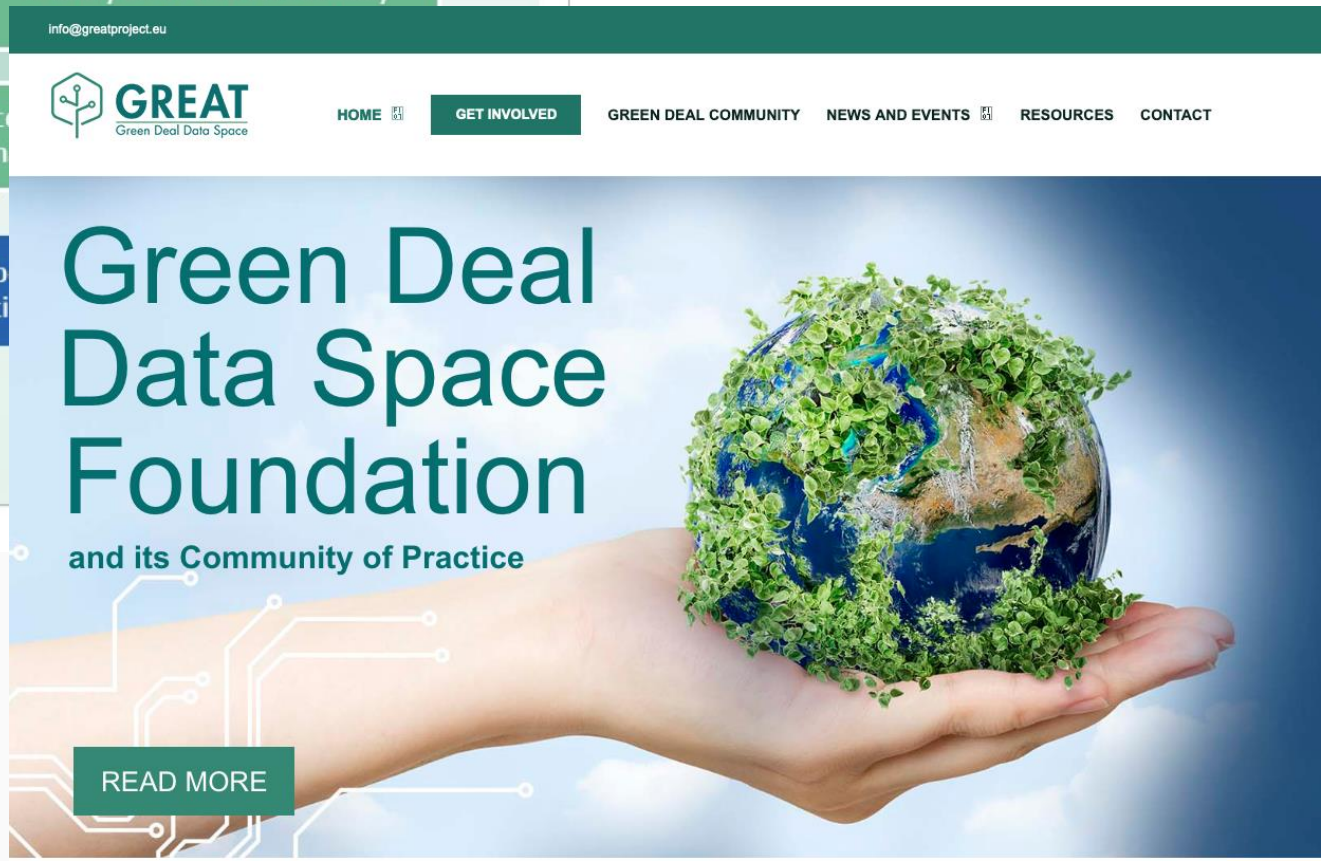
3. Implementation of DGA and HVD not just a matter of compliance but also of choices and opportunities.

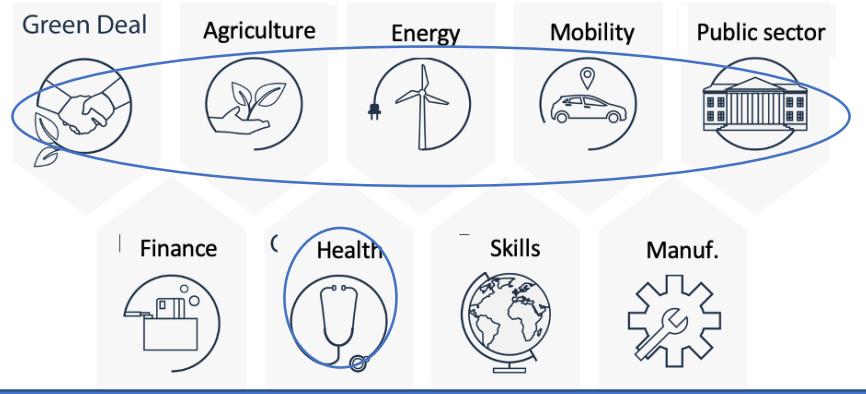
Reasoning from Socio-Economic Impact

- Who is using your data (too little)?
- Who should be using your data (more or differently)?

- What are their most interesting use cases?
- Which of those use cases support your own aims?
- What are your own most valuable use cases?
- Can you frame them so they convince others?

https://greatproject.eu/





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https://gnvm.nl/dataspace

Reference Architecture

Governance	Interoperability	Trust	Data usage
Use cases	Data models / formats	Identity management	Catalogs, metadata discovery
Business model	API's	Access & usage controls	Clearing house
Governance model / actor model	Metadata	Trusted exchanges	Vocabs, registers, thesauri
Legal agreements	Provenance & traceabiity		Marketplace
Operational agreements			
Community building			

Technological Infrastructure

Nirringrazzjak!
Thank you!

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